## References:

Abdo-Hasan, M., Khalil, H., Debis, B. and Mir-Ali, N. (2008) Molecular chrecterization of Syrian races of *Xanthomonas axonopodis* pv. *malvacearum*. *J. Plant Pathol.* **90:** 431-439.

Adhikari, T.B., Mew, T.W. and Leach, J.E. (1999) Genotypic and Pathotypic Diversity in *Xanthomonas oryzae* pv. *oryzae* in Nepal. *Phytopathology*. **89**: 687-694.

Agrios, G. N. (1997) Plant Pathology 4th edition. Academic Press, California, USA.

Aprna, G., Chatterjee, A., Jha, G., Sonti, R.V. and Sankaranarayan, R. (2009) Crystalization and preliminary crystallographic studies of LipA, a secretary Lipase/esterase from *Xanthomonas oryzae* pv. *oryzae*. *Acta Crystalogr*. **F-63**: 708-710.

Becker, A., Katzen, F., Puhler, A. and Ielpi, L. (1998) Xanthan gum biosynthesis and application: biochemical/genetic perspective. *Appl. Microbiol. Biotechnol.* **50**: 145-152.

Beckman T.G. (2003) Impact of fungal gummosis on peach trees. *Hortscience*. **38**: 1141-1143.

Bhandari, M.M. (1978) Flora of Indian desert, MPS Repros, Jodhpur, pp. 89-90.

Boothby D. (1983) Gummosis of stone-fruit trees and their fruits. *J. Sci. Food. Agric*. **34:** 1-7.

Bradbury, J.F. (1984) *Xanthomonas* Dowson. 1939. In: *Bergey's manual of systematic Bacteriology*, Vol.1. (Krieg, N. R. and Holt, J.G. eds). Williams and Wilkins, Baltimore. pp. 199-210.

Chandel, K.P.S., Shukla, G. and Sharma, N. (1996). Biodiversity in medicinal and aromatic plants in India: Conservation and Utilization. pp.12.

Chapon, V., Czjzek, M., El Hassouni, M., Py, B., Juy, M. and Barras, F. (2001) Type II protein secretion in gramnegative pathogenic bacteria: The study of the structure/secretion relationships of the cellulase

Cel5 (formerly EGZ) from *Erwinia chrysanthemi*. *J. Mol. Biology*. **310:** 1055–1066.

Dalal, K.C. and Patel, M.A. (1995) Guggal "*Advances in Horticulture*". **11**: 491-501.

Elizabete, S.C., Jackeline, L.P., Alice, M.Q., Eliane, F.N., Ricardo, H.K. and Betania, F. Q. (2008) *Xanthomonas gardneri* exoenzymatic activity towards plant tissue. *World J. Microbiol. Biotechnol*. **24**: 163–170.

Fatima, S., Bajwa, R., Anjum, T. and Saleem, J. (2012) Assessment of genetic diversity among different indigenous *Xanthomonas* isolates via RAPD and ISSR. *African J. Microbiol. Research*. **6**(9): 1947-1957.

Ferreira-Tonin, M., Rodrigues-neto, J., Harakava, R. and destifano, S.A.L. (2011) Phylogenetic analysis of *Xanthomonas* based on parsial rpoB genesequences and speices differentiation by PCR-RFLP. *Int. J. Syst. Evol. Microbiol.* (doi:10.1099/ijs.0.028977-0).

Gent, D.H., Al-Saadi, A., Gabriel, D.W., Louws, F.J., Ishimaru, C.A. and Schwartz, H.F. (2005) Pathogenic and genetic relatedness among *Xanthomonas axonopodis* pv. *allii* and other pathovars of *X. axonopodis*. *Phytopathology.* **95:** 918-925.

Goncalves, E.R. and Rosato, Y.B. (2002) Phylogenetic analysis of *Xanthomonas* species based upon 16S-23S rDNA intergenic spacer sequences. *Int. J. Syst. Evol. Microbiol.* **52**: 355-361.

Gupta, P., Shivanna, K.R. and Mohanram, H.Y. (1996) Apomixis and polyembryony in guggul plant; *Commiphora wightii*. *Annals of Botany*. **78:** 67-72.

Hall, T.A. (1999) BioEdit: a user-friendly biological sequence alignment editor and analysis programmer for windows 95/98/NT. *Nucl. Acids Symp. Ser*. **41**: 95-98.

Hamza, A.A., Robène-Soustrade, I., Jouen, E., Gagnevin, L., Lefeuvre, P., Chiroleu, F., Fisher-Le-Saux, M. and Pruvost, O. (2012) MLSA and AFLP based characterization of *Xanthomonads* associated with bacterial spot of tomato and pepper and their relatedness to *Xanthomonas* species. *Syst. Appl. Microbiol.* (dio:10-1016/ j.syapm.2011.12.005).

Jaccard, P. (1908) Nouvelles researches sur la distribution florale. *Bull. Soc. Vaud. Sci. Nat.* **44**: 223-270.

Janse, J. D. (2005**)**. Phytobacteriology Principle and Practice. CABI Publishing Company Limited, Wallingford, UK.

Jkotun, T. (1984) Pectolytic enzymes produced by *Xanthomonas campestris* pv. *cassavae* and their involvement in pathogenesis. *Microbiology*. **24**: 363-368.

Kimura, I., Koshikawa, M., Kobayashi, S., Sugihara, Y., Suzuki, M., Oominami, H., Murakami, T., Matsuda, H. and Doiphode, V.V. (2001) New triterpenes, myrrhanol A and myrrhanone A, from guggul-gum resins, and their potent anti-inflammatory effect on adjuvant-induced air-pouch granuloma of mice. *Bioorg. Med. Chem. Lett.* **11**(8): 985-989.

Kpemoua, K., Boher, B., Nicole, M., Calatayud, P. and Geiger, J.P. (1996) Cytochemistry of defense responses in cassava infected by *Xanthomonas campestris* pv. *manihotis. Canadian J. Microbiol.* **41:** 1131–1143.

Librado, P. and Rozas, J. (2009) DnaSP v5: A software for comprehensive analysis of DNA polymorphism data. *Bioinformatics***. 25:** 1451-1452**.**

Mandal, K.K. and Mani, C. (2009) ERIC-PCR-Generated Genomic Fingerprints and Their Relationship with Pathogenic Variability of *Xanthomonas campestris* pv. *punicae*, the Incident of Bacterial Blight of Pomegranate. *Curr. Microbiol.* **59:** 616–620.

Manners, J.G. (1993) *Principles of Plant Pathology*. 2nd ed. Cambridge University Press.

Massomo, M.S., Nielsen,H., Mabagala, R.B., Mansfeld-Giese, K., Hockenhull, J. and Mortensen, C.N. (2003) Identification and characterisation of *Xanthomonas campestris* pv. *campestris* strains from Tanzania by pathogenicity tests, Biolog, rep-PCR and fatty acid methyl ester analysis. *Eur. J. Plant Pathol.***109:** 775–789.

Murray, M.T. (1995) The healing power of herbs: The enlightened person's guide to the wonders of medicinal plants. Prima Publishing, CA.

Nei, M. and Kumar, S. (2000) *Molecular Evolution and Phylogenetics*. Oxford University Press, New York.

Ngoc, L.B.T., Verniere C., Jaoun, E., Ah-You, N., Lefeuvre, P., Chiroleu, F., Gagnivin, L. and Pruvost, O. (2010) AFLP and MLSA based genotypic relatedness among pathogenic variants of *X. citri* pv. *citri* and *X. campestris* pv. *bilvae*. *Int. J. Syst. Evol. Microbiol*. **60**: 515-525.

Nityananda, S. and Kapoor, N.K. (1971) Hypocholesterolemic effect of *Commiphora mukul* resin (Guggal). *Indian J. Experimental Biology* **9**: 376-377.

Ogunjobi, B.A., Fagade, O.E. and Dixon, A.G.O. (2010) Comparative analysis of genetic variation among *Xanthomonas axonopodis* pv. *manihotis* isolated from the western states of Nigeria using RAPD and AFLP. *Indian J. Microbiol.* **50:** 132–138.

Poplawsky, A.R., Urban, S.C. and Chun,W. (2000) Biological role of xanthomonadin pigments in Xanthomonas campestris pv. campestris. *Appl. Env. Microbiol.* **66** (12): 5123-5127.

Rademaker, J.L.W., Louws, F.J., Schultz, M.H., Rossbach, U., Swing, J., Vauterin, L. and de-Bruijn, F.J. (2005) A comprehensive species to strain taxonomic framework for *Xanthomonas*. *Phytopathology.* **95:** 1098-1111.

Rakholiya, K. B., Jadeja, G. C., Sriram, S., Patel, P. B. and Dalal, K. C. (2001). Control of the bacterial wilt of guggal after collection of gum (Abstr.). *J. Myco. Plant Pathol.* **31:** 111.

Rajeshwari, R., Jha, G. and Sonti, R.V. (2005) Role of an in planta-expressed xylanase of *Xanthomonas oryzae* pv. *oryzae* in promoting virulence on rice. *Mol. Plant Microbe. Interact*. **18**: 830–837.

Rao, M.R., Palada, M.C. and Becker, B.N. (2004). Medicinal and aromatic plants in agro forestry systems. *Agroforestry System.* **61:** 107–122.

Rohlf, F. J. (1997) NTSYS-PC: Numerical taxonomy and Multivariate Analysis System. Exeter Software, New York, USA.

Ryan, R.P., Vorholter, F.J., Potnis, N., Jones, J.F., Sluys, M.V., Bogdanove, A.J. and Dow, J.M. (2011) Pathogenomics of *Xanthomonas:*

understanding bacterium- plant interactions. *Nature Reviews Microbiol*. **9:** 344- 355.

Saberi-Riseh, R., Hajieghrar, B., Rouhani and Sharifitehrani, H. (2004) Effect of inoculam density and substrate type on saprophytic survival of *Phytopthora drechsleri*, the causal agent of gummosis on pistachio in Rafsanjan, Iran. *Commun. Agric. Applied Biol. Sci.* **69**: 653-656.

Santiago, R., De- Armas, R., Legaz, M.E. and Vicente, C. (2009) Changes in phenolic acids content, phenylalanine ammonia-lyase and peroxidase activities in sugarcane leaves induced by elicitors isolated from *Xanthomonas albilineans. Aus. Plant Pathol*. **38**: 357–365.

Soni, V. (2008) *In-situ* conservation of *Commiphora wightii* a red-listed medicinal plant species of Rajasthan state, India. IUCN (http://cmsdata.iucn.org/downloads/final_project_report_dr__vineet_soni.pdf).

Tamura, K., Dudley, J., Nei, M. and Kumar, S. (2007) MEGA4: Molecular Evolutionary Genetics Analysis (MEGA) software version 4.0. *Molecular Biology and Evolution.* **24**: 1596-1599.

Van den Mooter, M. and Swings, J. (1990) Numerical analysis of 295 phenotypic features of 266 *Xanthomonas* strains and related strains and an improved taxonomy of the genus. *Int. J. Syst. Bacteriol.* **40:** 348-369.

Van-der-Watt, J.J.A. (1975) The South West African species of *Commiphora. Mitteilungen der Botanischen Staatssammlung, Muenchen*. **12**: 195-266

Vauterin, L., Vantomme, R., Pot, B., Hoste, B., Swings, J. and Kersters, K. (1993) Taxonomic analysis of *Xanthomonas campestris* pv. *begoniae* and *X campestris* pv. *pelargonii* by means of phytopathological, phenotypic, protein electrophoretic and DNA hybridization methods. *Syst. Appl. Microbiol*. **13:** 166-176.

Vauterin, L., Hoste, B., Kersters. K. and Swing. J. (1995) Reclassification of genus *Xanthomonas. Int. J. Sys. Bacteriol*. **45:** 472-489**.**

Veracruz, C.M., Gosselé, F., Kersters, K., Segers, P., Van den Mooter, M., Swings, J. and DeLey, J. (1996) Differentiation between *Xanthomonas*

*campestris* pv. oryzae, *X. campestris* pv. *oryzicola* and the brown blotch pathogen on rice by numerical analysis of phenotypic features and protein gel electrophoregrams. *J. Gen. Microbiol.* **130:** 2983-2999.

Verider, V., Boher, B., Maraite, H. and Geiger, J. (1994) Pathological and Molecular Characterization of *Xanthomonas campestris* strains Causing Diseases of Cassava (*Manihot esculenta*). *Appl. Env. Microbiol.* **60** (12): 4478-4486.

Watt, G. (1972) A dictionary of the economic products of India. Cosmo publication, Delhi. pp.372.

Xiao, D. and Singh, S.V. (2008) Guggulsterone-z, a constituent of Ayurvedic medicinal plant Commiphora mukul, inhibits angiogenesis in vitro and in vivo. *Mol. Cancer Ther*. **7:** 171–180.

Yashitola, J., Krishnaveni, D., Reddy, A.P.K., and Sonti, R.V. (1997) Genetic diversity within the population of *Xanthomonas oryzae* pv. *oryzae* in India. *Phytopathology*. **87**: 760-765.

Young, J.M., Park, D.C., Shearman, H.M. and Fargier, E. (2008) A multilocus sequence analysis of genus *Xanthomonas*. *Systemic and Applied Microbiology.* **31:** 366-377.

Zamani, Z., Bahar, M., Jacques, M.A., Reza Lak, M. and Akhavan, A. (2011) Genetic diversity of the common bacterial blight pathogen of bean, Xanthomonas axonopodis pv. phaseoli, in Iran revealed by rep-PCR and PCR–RFLP analyses. *World J. Microbiol. Biotechnol*. **27:** 2371-2378.